Free Phase Hydrocarbon Recovery Pilot Test Report

Village of Hartford Hartford, Illinois

Clayton Project No. 15-03095.13-001 May 13, 2004

Prepared for:
THE HARTFORD WORKING GROUP
Hartford, Illinois

Prepared by: CLAYTON GROUP SERVICES, INC. 3140 Finley Road

Downers Grove, Illinois 60515 630.795.3200





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Executive Summary

On behalf of the Hartford Working Group (HWG), Clayton Group Services, Inc. has completed two separate free phase hydrocarbon (FPH) recovery tests within the Village of Hartford, Illinois (Village). The tests were conducted at recovery wells RW-2 and RW-3 for a continuous period of approximately two months. The primary objective of the tests was to determine the greatest potential FPH recovery rate (and resulting "capture zone") that could be achieved from a single well via conventional skimmer pump technology.

The tests were conducted on two existing recovery wells (RW-2 and RW-3) located within the northern portion of the Village. These wells were installed for hydrocarbon recovery in the late 1970s (RW-2) and early 1990s (RW-3) and have been documented to contain measurable quantities of FPH.

As part of the HWG's hydrocarbon recovery tests, conventional skimmer pumps equipped with specific gravity skimmers extracted FPH from each well. The pumps were pneumatically powered via an aboveground programmable control box connected to a portable air compressor. At both recovery well locations, the recovered hydrocarbon was collected within an aboveground storage tank (AST) provided with secondary containment and a "tank full" pump disabling switch.

Hydrocarbon that accumulated within the ASTs was routinely pumped to prevent a "tank full" condition and ensure a continuous test. The hydrocarbon was removed from the AST by Onyx Environmental Services, L.L.C. and transported to its Sauget, Illinois facility for incineration.

The pumping tests activities were initiated on February 16, 2004 and completed on March 31, 2004 ("pumping period"). Pertinent test information (hydrocarbon thickness)



was periodically collected from each recovery well (and select surrounding wells) for the entire pumping period and was continued for approximately four weeks (until April 28, 2004) following disabling of the pumps ("recovery period"). Pertinent findings of the FPH pump tests are summarized below:

- The tests were initiated with the skimmer pumps set to pump hydrocarbon at their maximum possible rate (~5 gal/hr [0.086 gal/min]). Due to a continually decreasing hydrocarbon thickness in both wells during the pumping period, the pumping rate did not need to be increased during either test.
- FPH product thickness decreased 88% in RW-3 in the initial 24 hours of the test (from 1.87 feet to 0.21 feet).
- FPH product thickness decreased 32% in RW-2 in the initial week of the test (from 1.49 feet to 1.01 feet).
- Within both recovery wells, a steady and continuous decrease in product thickness occurred throughout the entire pumping period, thereby suggesting the 0.086 gal./min. pumping rate exceeded the influx of hydrocarbon into each well.
- Approximately 50 gallons of FPH were recovered from RW-3 during the pumping period. The majority of this hydrocarbon was recovered within the first day suggesting that little FPH was re-entering the well. Within 28 days of the shutdown of the test, the hydrocarbon thickness had recovered approximately 70% (1.31 feet of the original 1.87 feet).
- Approximately 1,991 gallons of FPH were recovered from RW-2 during the pumping period. Throughout the duration of this test, the hydrocarbon thickness in RW-2 declined slowly but steadily while, at the same time, the quantity of hydrocarbon recovered daily from this well declined slowly and steadily. All measurable FPH was removed from the well on March 31, 2004, at which time the pump was disabled. Within 28 days of disabling the pump, the FPH thickness had recovered approximately 95% (1.41 feet of the original 1.49 feet).
- Each of the "capture zone" monitoring wells (HMW-2 and HMW-10) located adjacent to RW-2 exhibited a steadily decreasing hydrocarbon thickness during the RW-2 pumping period. HMW-10 is located approximately 45 feet east of RW-2. HMW-2 is located approximately 70 feet east of RW-2. Only HMW-10 exhibited a rebounding hydrocarbon thickness during the recovery period. Hydrocarbon



recovery has been slow in HMW-2. This may be due to a "lag period" given the distance of HMW-2 from RW-2.

The results of the FPH recovery pilot test will be compared to the upcoming multi-phase extraction (MPE) pilot test for evaluating removal of FPH from the Village. Results of these tests, as well as the previous soil vapor extraction (SVE) pilot test and the ongoing investigation activities, will be used as part of the design of the final remedy for the Village.

The existing recovery pump at RW-2 will be restarted before the end of May 2004, following removal of the old piping and tanks from the area and construction of a permanent structure for the equipment. Clayton will continue to monitor the recovery rate at RW-2 to determine a sustained removal rate. The recovery pump at RW-3 will be restarted after conclusion of the MPE pilot test.



1.0 <u>INTRODUCTION/OBJECTIVE</u>

This document details the free phase hydrocarbon (FPH) recovery tests conducted between February 16, 2004 and April 28, 2004 within the Village of Hartford, Illinois (Village). Historical subsurface investigation reports have identified FPH beneath portions of the northern half of the Village. However, it should be noted the extent and quantity of this hydrocarbon have never been determined via a comprehensive subsurface investigation.

On behalf of the Hartford Working Group (HWG), Clayton Group Services, Inc. recently completed a preliminary detailed subsurface investigation of the hydrocarbon extent and will install monitoring wells to verify the extent and thickness of the plume. Based on this investigation, the extent of the FPH plume is estimated to include the entire northern portion of the Village up to West Rand Avenue. The southern limit of the plume is estimated to be at or near Watkins Street and continue east to the jurisdictional limits of the Village. The western edge of the plume is estimated to be bounded by Old St. Louis and Alton Road to the north, where it tapers to the east as it approaches North Delmar Avenue to the south.

The primary objective of these tests was to determine the greatest continuous FPH recovery rate (and resulting "capture zone") that could be achieved (from a single well) via a conventional skimmer (without groundwater depression and/or enhanced vacuum recovery technologies (i.e., bioslurping). Information collected from these tests will be used in future remediation designs to determine the most feasible and effective technology available to recover hydrocarbon beneath the Village.



2.0 <u>TEST PROCEDURES</u>

The active pumping tests were initiated on February 16, 2004 and completed on March 31, 2004 ("pumping period"). Pertinent test information (hydrocarbon thickness) was periodically collected from each recovery well (and select surrounding wells) for the entire pumping period and was continued for approximately four weeks (until April 28, 2004) following disabling of the pumps ("recovery period").

Throughout the pumping period, pertinent data (FPH thickness and depth to hydrocarbon/water) was periodically monitored to ensure appropriate pump depth within the recovery wells. In addition, the pump itself and its ancillary components (control box and compressor) were periodically monitored to reduce the potential for mechanical failure and interruption of the test.

The primary components/features of the FPH recovery tests included the recovery wells themselves, the pumps and ancillary control equipment, and the programmed pumping cycles. These equipment and control variables are detailed in the sections below.

2.1 RECOVERY WELLS

As previously stated, two existing recovery wells (RW-2 and RW-3) were used during these tests. Both wells exist in the northern portion of the Village and have contained FPH.

Recovery well RW-2 exists immediately west of Olive Street between East Date Street and East Cherry Street (Figure 1). RW-2 was installed in 1978 as a FPH recovery well. This well was installed within a 48-inch-diameter borehole and was constructed using 30-inch-diameter steel screen and riser pipe. The well was completed at 50 feet below surface grade (bsg). Additional well construction information (i.e., well screen interval

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and screen slot size) is not available. Based on historic data, RW-2 was used to recover FPH from 1978 until at least the late 1990s.

Recovery well RW-3 exists immediately east of North Market Street between East Cherry Street and East Birch Street (Figure 1). This well was installed in 1992 and was believed to be a FPH recovery well. Recovery well RW-3 well was constructed as a 4-inch-diameter well with steel screen and riser pipe. The total well depth is approximately 45 feet bsg. Additional well construction information (i.e., well screen interval and screen slot size) is not available.

2.2 EQUIPMENT

Pneumatic-powered pumps were selected for hydrocarbon recovery to minimize the risk of fire/explosion at each recovery well. QED Environmental Systems (QED) bladder pumps equipped with specific gravity skimmers on custom-cut 36-inch travel rods were selected for the tests. The specific gravity skimmer was manufactured to float on water and sink within FPH, allowing FPH to enter the pump inlet located at the top of the skimmer. A 36-inch skimmer travel was selected to allow for fluctuations (or rebounds) of the water table during the test.

Each pump was fired by an aboveground QED C100 pump controller connected to a portable air compressor. Air provided by the air compressor was dried via a series of desiccant filters before entering the controller. The desiccant filters were included to remove moisture from the air stream and prevent the air supply lines from freezing. The controller allowed for adjustment and monitoring of the pump refill and discharge cycles, and provided a final "well head" adjustment of the air supply pressure. The controller also provided real-time access to pertinent pumping data (number of pump cycles, refill time, discharge time, hours running, and hours off) at each recovery well.



Each pump was equipped with a pump positioning gauge to allow for rapid gauging of the skimmer location with respect to the FPH (without the need to remove the pump).

Discharge tubing from each pump was connected to an aboveground storage tank (AST) provided with secondary containment and a "tank full" pump disabling switch. The disabling switch forced a normally open solenoid within the C100 controller to close and disable the pump. The "tank full" switch was installed to prevent accidental overfills of the recovery tank. Figure 2 shows an overview of the product recovery system.

Photographs depicting the FPH recovery test equipment have been provided in Appendix A.

2.3 TEST METHODOLOGY

Before initiating each test, the depth to water/hydrocarbon was collected from each recovery well. In addition, in the case of the RW-2 test, two adjacent monitoring wells (HMW-2 and HMW-10) were gauged for depth to water/hydrocarbon. Monitoring wells HMW-1 and HMW-9 are shallow monitoring wells that have not had free phase hydrocarbon present and therefore were not included as monitoring points for the product recovery test.

The general concept upon initiating the tests was to pump FPH from each well at the maximum capacity of the pump (~5 gallons/hr.). The pumps were programmed to fire continuously, and the wells were monitored for product thickness throughout this pumping period. The pumping rate was to be increased (by adding a second pump to the well) only if the hydrocarbon thickness increased (or remained constant) within the well (which would have suggested the hydrocarbon was entering the well at least as fast as it could be removed). If the hydrocarbon thickness continually decreased throughout the pumping period, the extraction rate would not be increased. In this case, the time elapsed



until all hydrocarbon was extracted from each well would be monitored. After all hydrocarbon had been extracted from the well, the pump would be disabled and the recovery period would begin. During the recovery period, the wells would be monitored for potential rebounding hydrocarbon thickness.

In the case of the RW-2 test, adjacent monitoring wells HMW-2 and HMW-10 were periodically gauged for hydrocarbon thickness and depth during both the pumping and recovery periods. This information would be used to determine the potential effective "capture zone" for skimmer pump technology within the Village.

Periodically, the positioning of the pumps within the well was checked against the depth to water/hydrocarbon in order to ensure optimum FPH recovery. As previously stated, extracted hydrocarbon was stored within an AST staged at each recovery well. The ASTs were routinely monitored for hydrocarbon level and pumped as necessary to avoid triggering a "tank full" condition (and disabling of the pump). The hydrocarbon was removed from the AST by Onyx Environmental Services, L.L.C. and transported to its Sauget, Illinois facility for incineration. The waste manifests are provided in Appendix B.

3.0 RESULTS

The hydrocarbon recovery tests completed between February 16, 2004 and April 28, 2004 have provided sufficient information regarding the potential for FPH recovery within the Village. The results of the hydrocarbon recovery tests in RW-2, RW-3, HMW-2, and HMW-10 are included in Tables 1 through Table 4.

Based on the above-referenced tests, the following items are considered pertinent factors affecting hydrocarbon recovery within the Village:

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- The tests were initiated with the skimmer pumps set to pump hydrocarbon at their maximum possible rate (~5 gal/hr [0.086 gal/min]). Due to a continually decreasing hydrocarbon thickness in both wells during the pumping period, the pumping rate would not be increased during either test.
- FPH product thickness decreased 88% in RW-3 in the initial 24 hours of the test (from 1.87 feet to 0.21 feet) (Figure 3).
- FPH product thickness decreased 29% in RW-2 in the initial week of the test (from 1.49 feet to 1.01 feet) (Figure 4).
- Within both recovery wells, a steady and continuous decrease in product thickness occurred throughout the entire pumping period, thereby suggesting the 0.086 gal./min. pumping rate exceeded the influx of hydrocarbon into each well.
- Approximately 50 gallons of FPH were recovered from RW-3 during the pumping period. The majority of this hydrocarbon was recovered within the first day suggesting that little FPH was re-entering the well. Within 28 days of the shutdown of the test, the hydrocarbon thickness had recovered approximately 70% (1.31 feet of the original 1.87 feet).
- Approximately 1,991 gallons of FPH was recovered from RW-2 during the pumping period. Throughout the duration of this test, the hydrocarbon thickness in RW-2 declined slowly but steadily while at the same time the quantity of hydrocarbon recovered daily from this well declined slowly and steadily (Figure 4). All measurable FPH was removed from the well on March 31, 2004, at which time the pump was disabled. Within 28 days of disabling the pump, the FPH thickness had recovered approximately 95% (1.41 feet of the original 1.49 feet).
- Each of the "capture zone" monitoring wells (HMW-2 and HMW-10) located adjacent to RW-2 exhibited a steadily decreasing hydrocarbon thickness during the RW-2 pumping period (Figures 5 and 6). HMW-10 is located approximately 45 feet east of RW-2. HMW-2 is located approximately 70 feet east of RW-2. Only HMW-10 exhibited a rebounding hydrocarbon thickness during the recovery period. Hydrocarbon recovery has been slow in HMW-2. This may be due to a "lag period" given the distance of HMW-2 from RW-2.



4.0 <u>CONCLUSIONS</u>

The results of the FPH recovery pilot test will be compared to the upcoming multi-phase extraction (MPE) pilot test for evaluating removal of FPH from the Village. Results of these tests, as well as the previous soil vapor extraction (SVE) pilot test and the ongoing investigation activities, will be used as part of the design of the final remedy for the Village.

The existing recovery pump at RW-2 will be restarted before the end of May 2004, following removal of the old piping and tanks from the area and construction of a permanent structure for the equipment. Clayton will continue to monitor the recovery rate at RW-2 to determine a sustained removal rate. The recovery pump at RW-3 will be restarted after conclusion of the MPE pilot test.



FIGURES



TABLES



APPENDIX A

PHOTOGRAPHS



APPENDIX B

WASTE MANIFESTS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276

SPP.INGFIELD, ILLINOIS 62794-9276 (217) 782-6761

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OF HAZARDOUS

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State Form LPC 62 8/81 IL5

IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's			Manifest cument No.	2. Pa	require	ed by Federa	shaded areas is not all law, but is required by
	3. Generator's Name and Mailing Address PREMCOR 201 E HAWTHORNE ST HARTFORD, IL 62048-1126	SAME	ocation If Different	3	163	B. Ger	ois Manifest Do 10693 herator's IL	344	FEE PAID IF APPLICABLE
	4. *24 HOUR EMERGENCY AND SPILL ASSISTAN	CE NUMBERS*	1-800 535-	5053		CONTROL CONTROL STREET	NumbeN / A		nomina an
	5. Transporter 1 Company Name		6. US	EPA ID Number				PW060	9181-OH 35
	ONYX ENVIRONMENTAL SVCS L.L.C.		N D D B D B 3 1	369		D. Trai	nsporter's Phon	879 30	7-7111
	7. Transporter 2 Company Name			EPA ID Number		E. Trai	nsporter's lumber		
	9. Designated Facility Name and Site Address	. 1	10. US	EPA ID Number		F. Tran	nsporter's Phon	ie () BA
	ONYX ENVIRONMENTAL SVCS,L.L.C. 7 MOBILE AVENUE					G. Fac	ility's II	317	0 0 0 0 2-7
	CALLCET 11 #2204 40#0		LD098642	424		H. Fac	ility's Phone	8 271-2	804
	SAUGET, IL 62201-1069 11. US DOT Description (Including Proper Shipping	Name, Hazard C			12. Conta	ainers	13. Total	14. Unit	- I .
_	· 5				No.	Туре	Quantity	Wt/Vol	The Art of the Control of the Contro
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	b.			24		PT+	00/191	29	EPA HW Number
				315/05					
							1 1 1 1		
	c.				99				EPA HW Number
	d.								EPA HW Number
	J. Additional Description for Materials Listed Above A) L/I 374968 TW074968	J. Dalle	packing	asliD			dling Codes for em #14	Wastes L	isted Above
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25-1074

IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

UNIFORM HAZARDOUS	1. Generator's US EPA ID No.		nifest				No. 2050-		
WASTE MANIFEST	LD041889023		nent No.		Page 1	required	by Federa	shaded ar	eas is n required l
3. Generator's Name and Mailing Address	Location If Different	04131		1	of	Illinois la	aw.		
PREMCOR	SAME	316	7	11	Inois Man	Test Doc	ument N	 FEE PA 	
201 E HAWTHORNE ST HARTFORD, IL 62048-1126				P C	-TÚC	93	345) IF APP	LICAB
4. *24 HOUR EMERGENCY AND SPILL ASSIST	ANCE NUMBERS* 4 800 525	5050		B. G	enerator's Number	111	90,	500	00
5. Transporter 1 Company Name	1000 000	PA ID Number		C. Ti	ransporter	s		-	
ONYX ENVIRONMENTAL SVCS LL.C.	1				Number	UF	W080	9181-0)H
7. Transporter 2 Company Name	NIDOROG31 8. USE	PA ID Number		E T	ransporter	s Phone	79 34	7-7111	
	1				Number	S			
9. Designated Facility Name and Site Address	10. US E	PA ID Number		F. Tr	ansporter	s Phone	1)	
ONYX ENVIRONMENTAL SVCS,L.L.C.					acility's IL			0000	7 !
7 MOBILE AVENUE					Number	8 1	2 1	0 0 0	0
SAUGET II 62201-1060	1 00986424	124		H. Fa	acility's Ph	ones (R	271-20	SU4	
11. US DOT Description (Including Proper Shippi	ng Name, Hazard Class, and ID Number)		12. Conta		13		14.		
			No.		To	tal	Unit	I. Waste	
RQ, WASTE GASOLINE, 3, UN1203, II.	(D018)		140.	Туре	Qua	пшу	Wt/Vol	EPA HW	
	. (55.5)							D001	
N P		-	01	TP	001	6.0	6		
D.			V 11		UUI	00	7	EPA HW I	Number
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A) LI 374968 TWI 374968 3479	68 per packeng	alip IL	5 cx	K. Har In It	l I ndling Cod tem #14	L I les for Wa	astes Lis		
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COPY 1. TSD MAIL TO GENERATOR

35-1165

State Form LPC 62 8/81

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

LEASE TYPE (Form designed for use on elit		532-0610		AND SF	PECIAL WAS	STE
(i offit designed for disc off elli				Approved. OMB		
UNIFORM HAZARDOUS WASTE MANIFEST		Manifest ocument No.	2. Page		by Federal la	naded areas is not w, but is required by
3. Generator's Name and Mailing Address	Location If Different		A. Illinois	s Manifest Doc	ument Numl	ber
PREMCOR 201 E HAWTHORNE ST	SAME		IL1	0693	000	FEE PAID IF APPLICABLE
HARTFORD, IL 62048-1126 4. *24 HOUR EMERGENCY AND SPILL ASSIS	TANCE ALLIANDEDO:		B. Gene ID Nu	imbor .	9 D 5 I	D D D D 2
5. Transporter 1 Company Name	1-800 535-5053 6. US EPA ID Number		C. Trans	sporter's		
ONY ENABONMENTAL SUCS LI	and the second of the second o		D. Trans	sporter's Phone		8181 OH
7. Transporter 2 Company Name	8. US EPAID Number		E. Trans	porter's	973 34	7-7111
9. Designated Facility Name and Site Address	10. US EPA ID Number		F. Trans	porter's Phone	()	
ONYX ENVIRONMENTAL SVCS,L'.L 7 MOBILE AVENUE	c.		G. Facilit ID Nu	ty's IL Imber 1 6	3 1 2	9, מן מן מן
SAUGET II 62201-1060	110098842424		H. Facilit	ty's Phone 61	8 271-26	304
11. US DOT Description (Including Proper Shipp	ing Name, Hazard Class, and ID Number)	12. Conta	ners	13.	14.	1
a. p		No.	Туре	Total Quantity	Unit Wt/Vol	Waste No.
RQ, WASTE GASOLINE, 3, UN1203	I, II, (D018)		7.			EPA HW Number
		003		600	0.00	D001
o.		الم	Р		G	EPA HW Number
90- ³¹ - 31						
2.						EPA HW Number
d.						EPA HW Number
J. Additional Description for Materials Listed Abo A) L/I TWI 347968	Ve		K. Handlir In Item	ng Codes for W #14	astes Listed	Above
		charle and the				
15. Special Handling Instructions and Additional		E-Model (et l'a			25年1月17日	istori,
PACKING SUPS ATTACHED FOR C	LARIFICATION - EMERGENCY NUMBER-INFO	OTRAC: 1-6	00-535-	-5053		
A CONTRACTORIO GERTIFICATION						
proper shipping name and are classified, pac	declare that the contents of this consignment are fully and ked, marked, and labeled, and are in all respects in prope	accurately der r condition for	scribed ab	ove by by highway		
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and future threat to human health and the er	vironment: OR if I am a small quantity generator I have	disposal curr	ently available	able to me whi	ch minimize	s the present
select the best waste management method t	hat is available to me and that I can afford.	made a good	i iaitii eilo	rt to minimize r	ny waste ge	Poto
Printed /Typed Name	Signature				Mont	Day Year
7. Transporter 1 Acknowledgement of Receipt o	Materials 10 g/ 11 cl				03	30804
Printed /Typed Name	- / V		1)	Mari	Date Voor
FRED ARNOL	Signature	()			Monti	1000
8. Transporter 2 Acknowledgement of Receipt of	Materials		4	(4)	0	Date
Printed /Typed Name	Signature		1		Monti	
			1			
Discrepancy Indication Space						
Facility Owner or Operator: Certification of rec	ceipt of hazardous materials covered by this manifest exce	ent as noted in	item 10			Deta
Printed /Typed Name	Signature Signature	Pr as noted III	neill 19.		Month	Date Day Year
horise Unlar	Chaire	Voln	11		03	30804
is Agency is authorized to require, pursuant to Illinois	Revised Statute 1989 Chapter 111 1/2 Scatic 1991	VUXI	~ 1			

IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

ASE TYPE (Form designed for use on elite (12	2-pitch) typewriter.) EPA 1. Generator's US EPA ID No.	Form 8700-22 (Rev	. 6-89) Manifest			No. 2050-0039	
UNIFORM HAZARDOUS WASTE MANIFEST	ILD041889023	b 3/	cument No.	2. Page 1	required Illinois la	by Federal lagar.	naded areas is no w, but is required by
Generator's Name and Mailing Address PREMCOR 201 E HAWTHORNE ST HARTFORD, IL 62048-1126	Location If Differen	t		A. Illinois M L1 0 B. Generate	693	982	FEE PAID IF APPLICABL
24 HOUR EMERGENCY AND SPILL ASSISTAN	CE NUMBERS 1-800	535-5053				1910151	10101010
. Transporter 1 Company Name	A. Sell, Sell Sell	US EPA ID Number		C. Transpor	ter's er	HEWNE	09181-OH
ONYX ENVIRONMENTAL SVCS LLC	NIDDO	1631360		D. Transpor	rter's Phone	THE RESERVE OF THE PARTY OF THE	13 7444
Transporter 2 Company Name		US EPA ID Number		E. Transpoi ID Numb	ter's er	0/3 3	4/-/111
D. Designated Facility Name and Site Address		US EPA ID Number		F. Transpor) ()	
ONYX ENVIRONMENTAL SVCS,L.L.C 7 MOBILE AVENUE				G. Facility's ID Numb	er 1 1 b		1, 0, 0, 0,
SAUGET II 62201-1069	110098	1642424		H. Facility's	Phone (618 ⁾ 271-2	2804
1. US DOT Description (Including Proper Shipping	Name, Hazard Class, and ID Num	nber)	12. Conta		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
RQ, WASTE GASOLINE, 3, UN1203,	II. (D018)		. 5		i in the		EPA HW Number
			0.01	00	100	G	
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A) L/I TWI347968 TOTE				K. Handling In Item #		vasies Liste	d Above
5. Special Handling Instructions and Additional Info	rmation			200 200 100 100	100		
PACKING SLIPS ATTACHED FOR CL	ARIFICATION - EMERGEN	CY NUMBER-INF	OTRAC:	1-800-535-	5053		
6. GENERATOR'S CERTIFICATION: I hereby dec proper shipping name and are classified, packed according to applicable international and national If I am a large quantity generator, I certify that be economically practicable and that I have sel and future threat to human health and the envir select the best waste management method that	 marked, and labeled, and are in all government regulations. have a program in place to redulence to redulence the practicable method of the conment; OR, if I am a small quan 	all respects in proper uce the volume and the eatment, storage, or tity generator, I have	toxicity of wa	or transport by	highway	nich minimiza	ac the precent
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7. Transporter 1 Acknowledgement of Receipt of M	aterials	0					Date
Printed /Typed Name	Signa	ture) //	7/	110		Mon	th Day Year
Yuu Hillion		/ //	IMA	ne	9	0	31104
8. Transporter 2 Acknowledgement of Receipt of M	aterials	()	, , ,		3		Date
Printed /Typed Name	Signa	ture				Mon	nth Day Year
9. Discrepancy Indication Space							
stopandy malouton opade							
20. Facility Owner or Operator: Certification of receip	ot of hazardous materials covered	by this manifest exce	ept as noted	in item 19.			Date

This Agency is authorized to lequide, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2 Section 1004 and 1021 that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center

State Form LPC 62 8/81

IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

_EASE TYPE (Form designed for use on elite (State Form LPC 62 8			AND S	PECIAL V	MASIE
UNIFORM HAZARDOUS	1. Generator's US EPA ID No.	700-22 (Rev. 6-89) Manifest		pproved. OMB		
WASTE MANIFEST	LD041889023	Document No.	2. Page	Informa required Illinois I	d by Federa	shaded areas is not law, but is required by
Generator's Name and Mailing Address PREMCOR 201 E HAWTHORNE ST	SAME Location If Different	03168	A. Illinois	Manifest Doo	cument Nu	mber
HARTFORD, IL 62048-1126		_	IL1(0676	996	FEE PAID IF APPLICABL
4. *24 HOUR EMERGENCY AND SPILL ASSISTAL	NCE NUMBERS* 1-800 535-505		B. Genera	toris IL	9.05	5,0,0,0,0
5. Transporter 1 Company Name		D Number	T C. Transpo			
ONYX ENVIRONMENTAL SVCS L.L.C.	NJD08063136		ID Num			181-OH
7. Transporter 2 Company Name	<u> </u>	D Number	E. Transpo	orter's Phon	118 341	-7111
9. Designated Facility Name and Site Address	10. LIS EPA I	D Number		rter's Phone	, ,	20 20 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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SAUGET, IL 62201-1069	14009864242	1	ID Num	Phone 18	271-28	210000
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J. Additional Description for Materials Listed Above A) L/I 374968 TW 374968				1 1 1		
347968 347968 347968 15. Special Handling Instructions and Additional Information PACKING SUPS ATTACHED FOR CLARIF	mation FICATION - EMERGENCY NUMBER	HNFOTRAC: 1-800	In Item #1 0-535-5053			
6. GENERATOR'S CERTIFICATION: I hereby deck proper shipping name and are classified, packed, according to applicable international and national If I am a large quantity generator, I certify that I be economically practicable and that I have sele and future threat to human health and the enviro select the best waste management method that it Printed /Typed Name	government regulations. have a program in place to reduce the vol	In proper condition for	transport by	highway	ee I have h minimiz ny waste g	es the present eneration and Date
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B. Transporter 2 Acknowledgement of Receipt of Mat	erials	1100)		_0	51504
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Printed (Typed Name		lest except as noted in	Item 10		1	-
Printed /Typed Name	Signature	nest except as noted in	item 19.		Mont	Date h Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 10121, that this information be submitted to the Agency. Failure to provide per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID N L D 0 4 1 8 8 9 0 2 3		Document No.	_	of	Illinois lav	by Federal v.	law, but is rec	paired by
PHEMICON Name and Mailing Address 101 F HAWTHORNE ST HAWTF ORD, IL 62048-1126	SAME Location If Diff	ferent	3170	IL B. Ge	nois Manif 106 eneratoris	769	998	IF APPL	ICABL
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Transporter 2 Company Name	8.	US EPA ID	Number	E. Tra	ansporter's Ansporter's Number		19 341	1-7111	
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Additional Description for Materials Listed Above A) LA 374968 TW 374966 34768				K. Har In I	l ndling Coo tem #14	⊥ ⊥ des for W	astes Lis	sted Above	
Additional Description for Materials Listed Above A) L/I 374968 TW 374968 34768 5. Special Handling Instructions and Additional In	formation	CY NUMBER	-INFOTRAC: 1-	In I	tem #14	L L	fastes Lis		
34788 5. Special Handling Instructions and Additional In RACKING SUPS ATTACHED FOR CLAIR 5. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable international and natio If I am a large quantity generator, I certify the be economically practicable and that I have so and future threat to human health and the enselect the best waste management method the	eclare that the contents of this ced, marked, and labeled, and a nal government regulations. at I have a program in place to elected the practicable method vironment; OR, if I am a small cat is available to me and that I	consignment are tre in all respects reduce the volu of treatment, st quantity generat can afford.	fully and accurately in proper condition	described for transp	d above by	y hway	ree I hav	ve determinizes the pre	ed to
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COPY 1. TSD MAIL TO GENERATOR

2033

3. Generator's Name and Mailing Address

HARTFORD, IL 62048-1126

PREMCOR 201 E HAWTHORNE ST

5. Transporter 1 Company Name

7. Transporter 2 Company Name

SAUGET, IL 62201-1069

7 MOBILE AVENUE

G

E b.

N

F R

C. A T 0

d. R

TRANSPORTER

FAC

UNIFORM HAZARDOUS

WASTE MANIFEST

ONYX ENVIRONMENTAL SVCS L.L.C

9. Designated Facility Name and Site Address

ONYX ENVIRONMENTAL SVCS,L.L.C.

aRQ, WASTE GASOLINE, 3, UN1203, II, (D018)

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*

(Form designed for use on elite (12-pitch) typewriter.)

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

PLEASE TYPE

Location If Different

1-900

1. Generator's US EPA ID No

LD041889023

6

8

10.

0.532-0610

Mariles

Document No 24

No

00

EPA Form 8700-22 (Rev. 6-89)

535-5053

0080631369

1 LD098642424

US EPA ID Number

US EPA ID Number

US FPA ID Number

FOR BHIPMENT OF HAZAREKHIR AND EPECIAL WASTE Form Approved. OMB No. 2050-0030 2. Page 1 information in the election areas in hel-required by Pesteral law, lick is responsed by case Historia Lase Illinois Manifest Document Number 0 IF APPLICABLE 20 spill call the Illinois Generator's ID Number Transporter's UPW0609181-OH ID Number Transporter's Phone76 347-7111 Transporter's **ID Number** F. Transporter's Phone Office H. Facility's Phone 18 271-2804 of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 420-2075. 12. Containers 13 Unit Total Waste No. Wt/Vo Quantity Type EPA HW Number D001 00200 **EPA HW Number** Br 3123/0 **EPA HW Number** EPA HW Number K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

J. Additional Description for Materials Listed Above

A) LA 374968 TW 374968

PACKING SLIPS ATTACHED FOR CLARIFICATION - EMERGENCY NUMBER-INFOTRAC: 1-800-535-5053

10. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Day

Signature

Beckymully	BULLEY	0 32 30 4
17. Transporter Acknowledgement of Receipt of Materials		Date
Printed /Typed Name BILL MEASE	Signature Bill W	Month Day Year 0 3 2 3 0 4
18. Transporter 2 Acknowledgement of Receipt of Materials		Date
Printed /Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

Printed /Typed Name

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in item 19

Printed /Typed Nam

Sale White Hall (198)

Oate

Month

State Form LPC 62 8/81

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

In case of a spill call the lillnois Office of Emergency Hesponse at 217//62-7860 and the National Hesponse Center at 800/424-8802 of 202/426-2675

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039 Manifes **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by 2. Page 1 Document No. WASTE MANIFEST Illinois law of A. Illinois Manifest Document Number
FEE PAID 3. Generator's Name and Mailing Address Location If Different HAVETH WATER ROO IF APPLICABLE HARTFORD IL 62040 1126 Generator's IL ID Number 1 466363 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* Transporter's ID Number UPWOSSELS: OH 5. Transporter 1 Company Name 6. US FPA ID Number 34y-1311 Transporter's Phone (7. Transporter 2 Company Name 8. US EPA ID Number Transporter's **ID Number** F. Transporter's Phone 9. Designated Facility Name and Site Address 10. US EPA ID Number ONLY ENVERONMENTAL SYCEL G. Facility's IL 7 to NALL WILLIAM ID Number H. Facility's Phone 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13 14. Total Unit Waste No. No Quantity Wt/Vo Cash, v. R. 1891 S (MITZES H (LAPIS) EPA HW Number G E b EPA HW Number N E R FPA HW Number C. A Т 0 **FPA HW Number** d. R J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 15. Special Handling Instructions and Additional Information 7 (40 8) 5 (6) 5 (7) 3 16. GENERATOR'S CERTIFICATION: i hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed /Typed Name Month Day Year Signature 17. Transporter 1 Acknowledgement of Receipt of Materials TRANSPORT Date Month Day Year Printed /Typed Name Signature 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed /Typed Name Month Day Year Signature E 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 Date Day Year Printed /Typed Name Signature Month

Figure 6: Hartford Working Group Free Phase Hydrocarbon Recovery Test - Recovery Well HMW-10

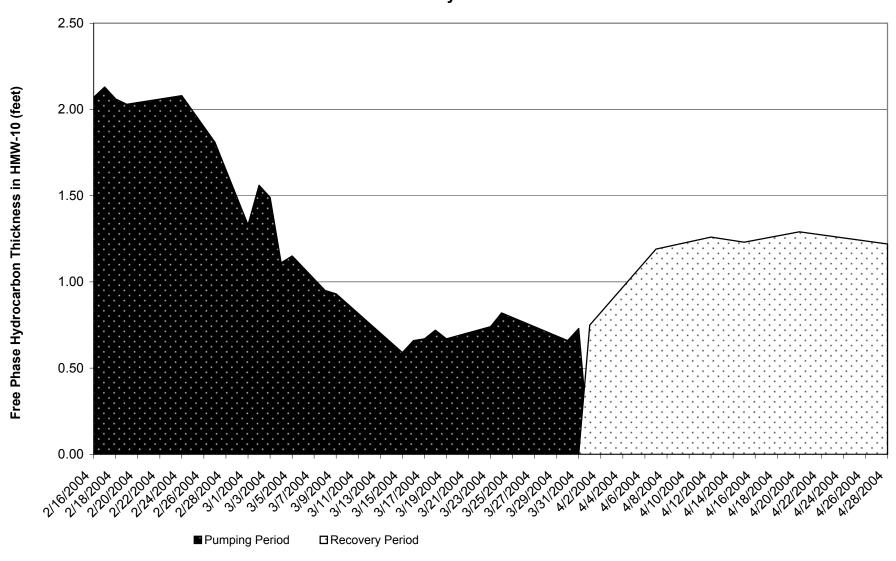


Figure 5: Hartford Working Group Free Phase Hydrocarbon Recovery Test - Recovery Well HMW-2

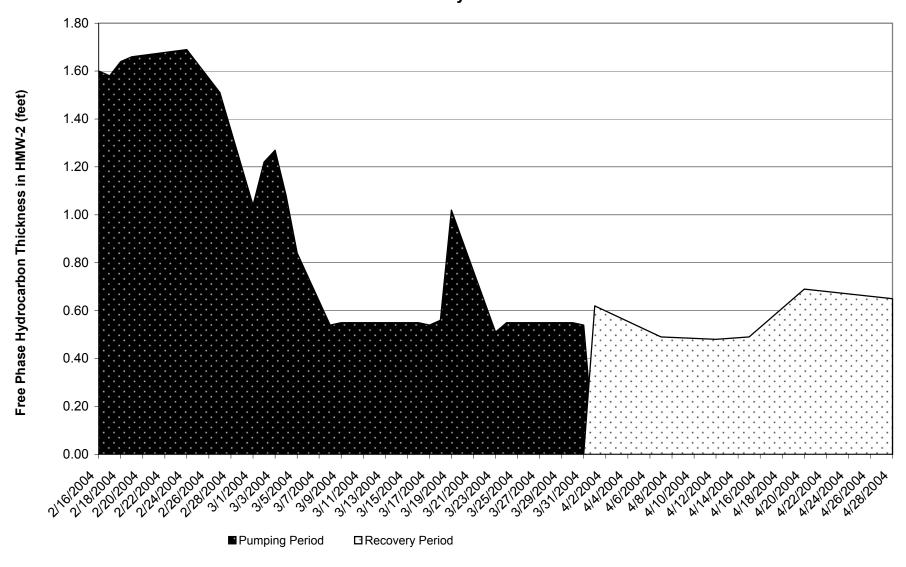


Figure 4: Hartford Working Group Free Phase Hydrocarbon Recovery Test - Recovery Well RW-2

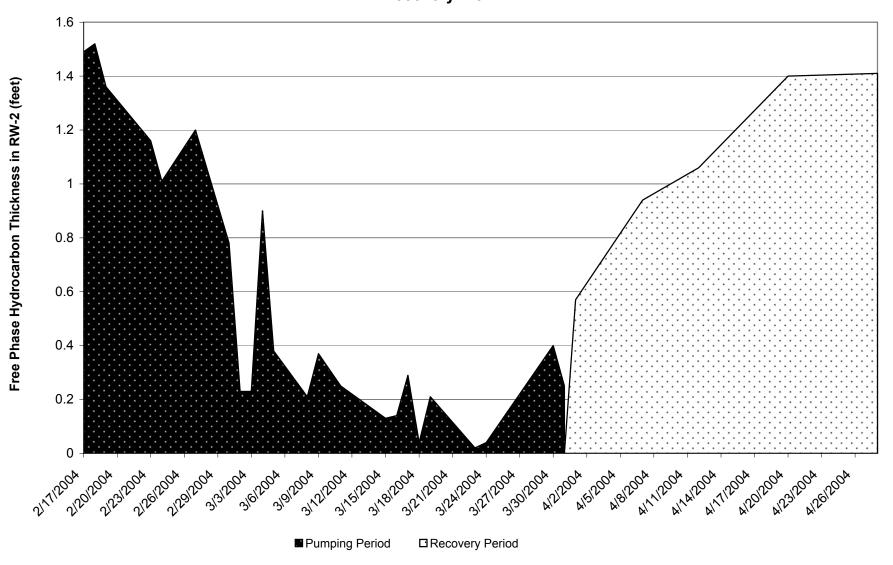
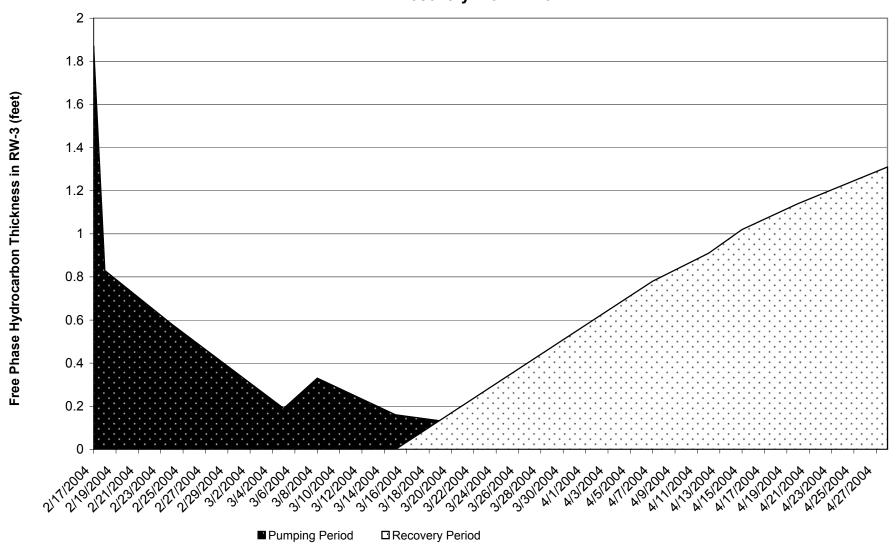
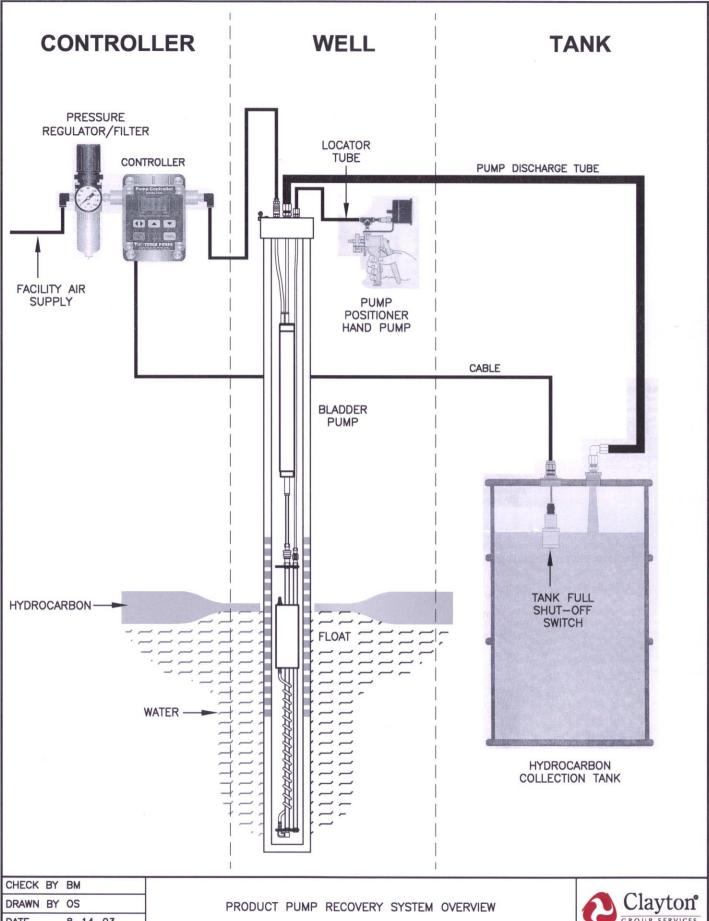


Figure 3: Hartford Working Group Free Phase Hydrocarbon Recovery Test - Recovery Well RW-3





DATE 8-14-03 SCALE AS SHOWN CAD NO. 03095003E PRJ NO. 15-03095.06

THE HARTFORD WORKING GROUP HARTFORD, ILLINOIS



FIGURE

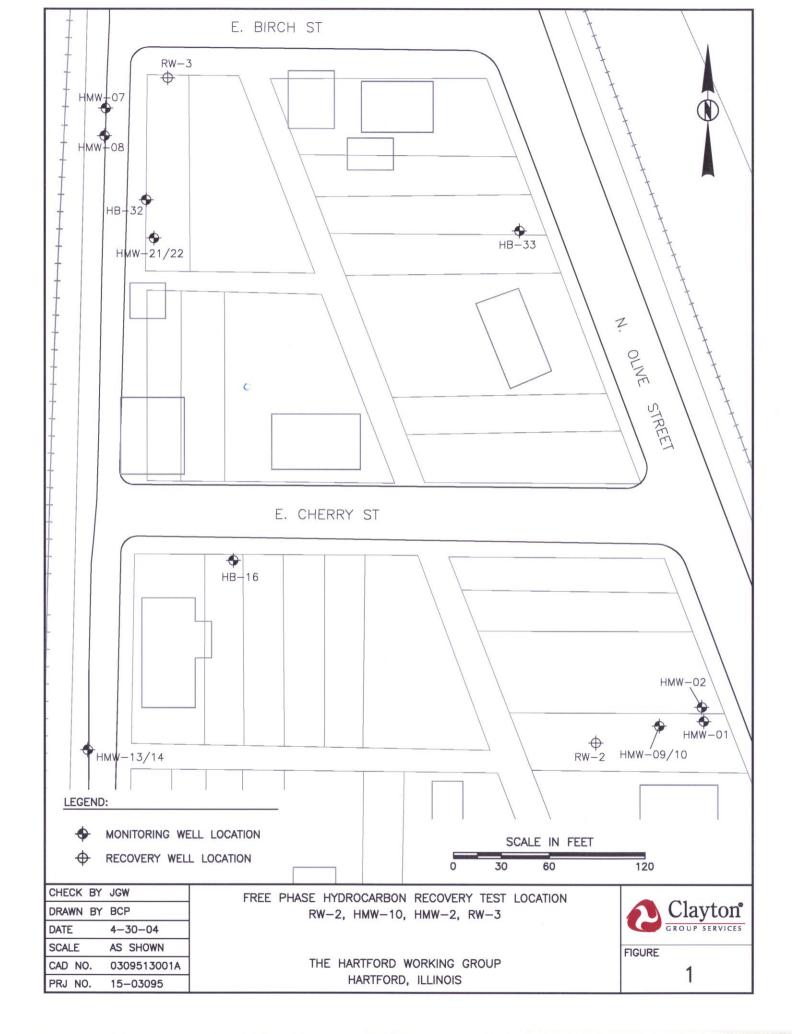


TABLE 4
Free Phase Hydrocarbon Recovery Test
Recovery Well HMW-10

FREE PHASE HYDROCARBON THICKNESS (feet)	DATE	TIME
2.07	02/16/04	1:00 p.m.
2.13	02/17/04	10:30 a.m.
2.06	02/18/04	
2.03	02/19/04	8:00 a.m.
2.08	02/24/04	8:05 a.m.
1.81	02/27/04	9:10 a.m.
1.33	03/01/04	1:30 p.m.
1.56	03/02/04	1:10 p.m.
1.49	03/03/04	
1.11	03/04/04	
1.15	03/05/04	
0.95	03/08/04	
0.93	03/09/04	
0.59	03/15/04	11:30 a.m.
0.66	03/16/04	
0.67	03/17/04	
0.72	03/18/04	
0.67	03/19/04	11:30 a.m.
0.74	03/23/04	
0.82	03/24/04	1:57 p.m.
0.66	03/30/04	
0.73	03/31/04	9:21 a.m.
0.73	03/31/04	4:28 p.m.
0.75	04/01/04	
1.19	04/07/04	
1.26	04/12/04	
1.23	04/15/04	2:30 p.m.
1.29	04/20/04	1:53 p.m.
1.22	04/28/04	

NOTE:

Shaded box indicates recovery period.

TABLE 3
Free Phase Hydrocarbon Recovery Test
Recovery Well HMW-2

FREE PHASE HYDROCARBON THICKNESS (feet)	DATE	TIME
1.60	02/16/04	1:00 p.m.
1.58	02/17/04	10:30 a.m.
1.64	02/18/04	
1.66	02/19/04	8:00 a.m.
1.69	02/24/04	8:05 a.m.
1.51	02/27/04	9:10 a.m.
1.04	03/01/04	1:30 p.m.
1.22	03/02/04	1:10 p.m.
1.27	03/03/04	
1.08	03/04/04	
0.84	03/05/04	
0.54	03/08/04	
0.55	03/09/04	
0.55	03/15/04	11:30 a.m.
0.55	03/16/04	
0.54	03/17/04	
0.56	03/18/04	
1.02	03/19/04	11:30 a.m.
0.51	03/23/04	
0.55	03/24/04	1:57 p.m.
0.55	03/30/04	
0.54	03/31/04	9:21 a.m.
0.54	03/31/04	4:28 p.m.
0.62	04/01/04	
0.49	04/07/04	
0.48	04/12/04	
0.49	04/15/04	2:30 p.m.
0.69	04/20/04	1:49 p.m.
0.65	04/28/04	

NOTE:

Shaded box indicates recovery period

TABLE 2
Free Phase Hydrocarbon Recovery Test
Recovery Well RW-3

FREE PHASE HYDROCARBON THICKNESS (feet)	DATE	TIME		
1.87	2/17/2004	8:28 a.m.		
0.83	2/18/2004	3:55 p.m.		
0.58	2/24/2004	9:25 a.m.		
0.19	3/5/2004	3:27 p.m.		
0.33	3/8/2004	1:00 p.m.		
0.16	3/15/2004	8:00 a.m.		
0.78	4/7/2004			
0.91	4/12/2004			
1.02	4/15/2004	2:15 p.m.		
1.14	4/20/2004	3:21 p.m.		
1.31	4/28/2004	<u></u>		

NOTE:

Shaded box indicates recovery period.

TABLE 1
Free Phase Hydrocarbon Recovery Test
Recovery Well RW-2

FREE PHASE HYDROCARBON THICKNESS (feet)	DATE	TIME		
1.49	02/17/04	10:20 a.m.		
1.52	02/18/04	10:23 a.m.		
1.36	02/19/04	7:20 a.m.		
1.16	02/23/04	12:15 p.m.		
1.01	02/24/04	7:30 a.m.		
1.20	02/27/04	8:10 a.m.		
0.78	03/01/04	1:10 p.m.		
0.23	03/02/04	1:05 p.m.		
0.23	03/03/04	8:35 a.m.		
0.90	03/04/04	3:41 p.m.		
0.38	03/05/04	8:30 a.m.		
0.21	03/08/04	11:45 a.m.		
0.37	03/09/04	10:01 a.m.		
0.25	03/11/04	9:00 a.m.		
0.13	03/15/04	11:20 a.m.		
0.14	03/16/04	4:17 p.m.		
0.29	03/17/04	2:03 p.m.		
0.04	03/18/04	9:40 a.m.		
0.21	03/19/04	11:20 a.m.		
0.02	03/23/04	2:02 p.m.		
0.04	03/24/04	1:53 p.m.		
0.40	03/30/04	12:31 p.m.		
0.25	03/31/04	8:38 a.m.		
0.16	03/31/04	2:14 p.m.		
0.05	03/31/04	4:26 p.m.		
0.06	03/31/04	4:52 p.m.		
0.57	04/01/04	2:01 p.m.		
0.94	04/07/04			
1.06	04/12/04			
1.40	04/20/04	1:59 p.m.		
1.41	04/28/04			

NOTE:

Shaded box indicates recovery period.



PHOTOGRAPH # 1

by JDC: 04/21/04

QED C100 Pneumatic Pump Controller.

PHOTO LOG
The Hartford
Working Group
Hartford, Illinois
Project 15-03095.13-001

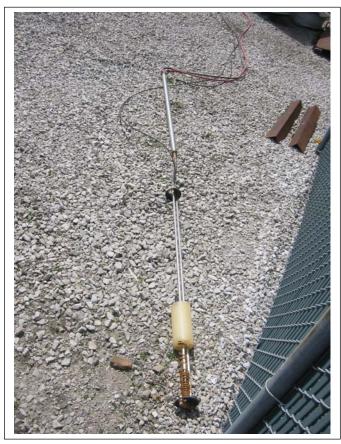


PHOTOGRAPH # 2

by JDC: 04/21/04

500-Gallon Lube Cube Hydrocarbon Recovery Tank.

PHOTO LOG
The Hartford
Working Group
Hartford, Illinois
Project 15-03095.13-001



PHOTOGRAPH #3

by JDC: 04/21/04

QED Specific Gravity Skimmer Pump.

OX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81

IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

EA:	SE TYPE (Form designed for use on elite (1	2-pitch) typewriter.)	EPA Form 8700-22		F	orm Approved. Of	ИВ No. 2050-	0039		
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID		Manifest Document No.	1	of Illino	red by Feder is law.	e shaded areas is no al law, but is required by		
	Generator's Name and Mailing Address	SAME Location If I	Different		A. IIIi	nois Manifest D	ocument N	umber FEE PAID IF APPLICABL		
'	AND TO SHALL IS A SERVED TO THE	1-1%	10 - 535-5053			enerator's IL ³ Number	9 9 5	0 0 0 0 2		
	4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*					C. Transporter's UPAN SQUIET ON				
	Transporter 1 Company Name		6. US EPA ID Number			ID Number				
7	Transporter 2 Company Name	8. US EPA ID Number			D. Transporter's Phone (
1	Transporter 2 company Name				ID Number					
9.	Designated Facility Name and Site Address	10. US EPA ID Number			F. Transporter's Phone ()					
	OMAN ENARONMENTAL SECS L.C.					G. Facility's IL ^T ID Number I I I I I I I I I				
	SAUGET IL 67261-1089	1 L 13 B	: LD098642424				H. Facility's Phone ()			
11	. US DOT Description (Including Proper Shipping	Name, Hazard Class, and	ID Number)	12. Conta	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.		
a.	HU WAS TO CARROLINE S. CHUTCHS, B.	FL ST	2		.,,,,,,		MO	EPA HW Number		
				001.	80	0169	06			
b.			***************************************					EPA HW Number		
				<u> </u>				EPA HW Number		
C.								EPA HW Number		
d.				+	Ė			EPA HW Number		
						111				
	5. Special Handling Instructions and Additional Inf PACHING SUPS ATTACHED FOR CLAI		ENCY NUMBER 1	de extensión de	(4) 57	f. 5115.7		7		
16	6. GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, packe according to applicable international and nation If I am a large quantity generator, I certify that be economically practicable and that I have seand future threat to human health and the enviselect the best waste management method the	ed, marked, and labeled, an nal government regulations. t I have a program in place elected the practicable meth rironment; OR , if I am a sma	e to reduce the volume nod of treatment, stora all quantity generator,	proper condition f and toxicity of was, or disposal cu	or trans	port by highway enerated to the available to me	degree I h	mizes the present		
_		at is available to file and the						Date Month Day Yea		
X	Printed /Typed Name		Signature					Month Day Yea		
17	7. Transporter 1 Acknowledgement of Receipt of I	Materials	11 11/4/	4				Date		
<u> </u>	Printed /Typed Name		Signature	*				Month Day Yea		
	HAROLD PIPER		MARKER	1 you				04/204		
18	3. Transporter 2 Acknowledgement of Receipt of I	Materials		7				Date		
	Printed /Typed Name		Signature					Month Day Yea		
19	9. Discrepancy Indication Space									
20	Facility Owner or Operator: Certification of rece	eipt of hazardous materials	covered by this manife	st except as noted	I in item	19.		Date		
	Printed /Typed Name		Signature					Month Day Yea		

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.